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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/802,852	03/18/2004	Shoji Kodama	274.43201X00	5856
24956 7	12/06/2006		EXAMINER	
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.			MAHMOOD, REZWANUL	
1800 DIAGON	IAL ROAD			7. 777 . 477 . 777
SUITE 370			ART UNIT	PAPER NUMBER
ALEXANDRIA, VA 22314			2164	
			DATE MAILED: 12/06/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental						
Notice	of Allowability					

Application No.	Applicant(s)	
10/802,852	KODAMA, SHOJI	
Examiner	Art Unit	
Rezwanul Mahmood	2164	

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	Rezwanul Mahmood	2164		
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS therewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not includ will be mailed in due	ed course. THIS	
1. X This communication is responsive to the application filed on	n 09/01/2006.			
2. X The allowed claim(s) is/are <u>1,2,4-11,13-21 and 23-30</u> .				
3. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the:				
 Certified copies of the priority documents have 	been received.		•	
Certified copies of the priority documents have	been received in Application No	·		
3. Copies of the certified copies of the priority doc	cuments have been received in this	national stage applica	ition from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	of this communication to file a reply ENT of this application.	complying with the re	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	t be submitted.			
(a) including changes required by the Notice of Draftspers	on's Patent Drawing Review (PTO-	948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	•	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the	.84(c)) should be written on the drawing the header according to 37 CFR 1.121(c)	ngs in the front (not the	e back) of	
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT I 	sit of BIOLOGICAL MATERIAL r FOR THE DEPOSIT OF BIOLOGIC	nust be submitted. AL MATERIAL.	Note the	
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. Notice of Informal P	Patent Application		
 Notice of References Cited (F10-092) Dotice of Draftperson's Patent Drawing Review (PTO-948) 	6. 🛛 Interview Summary	6. ⊠ Interview Summary (PTO-413),		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amendr			
Paper No./Mail Date	_			
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. 🛛 Examiner's Stateme	ent of Reasons loy All	//	
-	9. Other	SANCE	<i>'</i>	
		SAM RIMELL PRIMARY EXAMI	NER	

U.S. Patent and Trademark Office PTOL-37 (Rev. 08-06)

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in an in person interview with Mr. Collin Barnitz on 09/21/2006.

The application has been amended as follows:

In claim 1 line 14, the phrase --by instructions-- has been added after the phrase "wherein said storage system is configured".

In claim 1 line 18, the phrase --comparing the new hash value with-- has been added after the phrase "original file is read, or".

In claim 21 line 6, the phrase "is able to store" has been changed to --stores--.

In claim 13 line 1, after claim delete "12" and add --11--.

In claim 23 line 1, after claim delete "22" and add --21--.

REASONS FOR ALLOWANCE

- 2. The following is an examiner's statement of reasons for allowance:
- 3. Claims 1,2,4-11,13-21, and 23-30 are pending in this office action.
- 4. Claims 3, 12, and 22 have been cancelled.
- 5. The closest prior arts are Shoup (US Publication 2002/0147734), Melahn (US Patent 6,003,042), and Sawdon (US Publication 2003/0158873).
- 6. Claims 1, 11, and 21 are the pending independent claims.
- 7. With respect to claim 1, the prior arts made of record do not entirely disclose, make obvious, or otherwise suggest:

"wherein said storage system is configured to determine whether the original file has changed or whether the at least one format converted file has changed by reading one of said files, calculating a new hash value for the read file, and comparing said new hash value with a respective one of said first hash value if said original file is read, or comparing the new hash value with a corresponding second hash value if one of said format converted files is read."

8. With respect to claim 11, the prior arts made of record do not entirely disclose, make obvious, or otherwise suggest:

"managing a relationship between the original file and the format converted file to

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permit retrieval of either of the original file and the format converted file using an original inode that points to the original file, and by including in said original inode, for each said at least one format converted file, and inode number of a secondary inode corresponding to each said at least one format converted file;"

"using said first hash value to determine whether the original file has changed and/or using said second hash value to determine whether the corresponding format converted file has changed."

9. With respect to claim 21, the prior arts made of record do not entirely disclose, make obvious, or otherwise suggest:

"wherein said file conversion unit is configured to calculate a first hash value of the original file and, for each at least one format converted file, a second hash value corresponding to the format converted file, and

wherein said first hash value is stored in said first inode, and is used to determine whether the original file has changed, and

whether each said second hash value is stored in the corresponding second inode, and is used to determine whether the corresponding format converted file has changed."

10. Because of the missing features in the references mentioned above, independent claims 1, 11, and 21 are allowable. Since claims 2, 4-10 depend on claim 1, claims 13-20 depend on claim 11, and claims 23-30 depend on claim 21, they are also allowable.

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11. Any comments considered necessary by applicant must be submitted no later

than the payment of the issue fee and, to avoid processing delays, should preferably

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Statement of Reasons for Allowance."

SAM RIMELL